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WS 17L

AIR FORCE BALLISTIC MISSILE DIVISION

HEADQUARTERS

AIR RESEARCH AND DEVELOPMENT COMMAND

Post Office Box 262
Inglewood, California

15 September 1958

OPERATIONS ORDER

Serial No. 3-58

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REVIEWED
BY D. Best
DATE 2/8/58

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AIR FORCE BALLISTIC MISSILE DIVISION (HQ ARDC)
OPERATIONS ORDER NO. 3-58

WDSO-58-27

Cy 36 of 65

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AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

15 September 1958

OPERATIONS ORDER

Serial No. 3-58

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AIR FORCE BALLISTIC MISSILE DIVISION (HEDARDC)
OPERATIONS ORDER NO. 3-58

WDSO-58-27

Copy No. 35 of 65

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AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

WDSO 15 September 1958

SUBJECT: AFBMD Operations Order No. 3-58

TO: See Distribution List

1. The attached copy of order, subject as above, is transmitted for your retention.

2. The order will be effective upon coordination and approval by all commands concerned. Your review and coordination are required as early as possible. Request comments reach this Division, ATTN: WDSO no later than 27 October 1958.

JOHN B. HUDSON
Colonel, USAF
Deputy Commander, Resources

1 Incl
Opn Order No. 3-58

DISTRIBUTION:

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Hq AMC	2
Middletown AMA	2
Hq TAC	2
Pacific Command	2
PACAF	6
NAMTC, Pt Mugu	2
AFBMD	10
Palo Alto Fld Office	6
Pac Msl Rng, Liaison Off	1
Cooke Fld Off	2
Edwards Fld Off	2

[redacted] are withdrawn the classification of this correspondence will be down graded to Unclas in accordance with AFR 205-1.

AIR FORCE BALLISTIC MISSILE DIVISION (HEDARDC) WDSO-58-27
OPERATIONS ORDER No. 3-58

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AIR FORCE BALLISTIC MISSILE DIVISION (ARDC)
Inglewood, California
15 September 1958

OPERATIONS ORDER NO. 3-58

REFERENCES:

Air Force Ballistic Missile Division, (ARDC) Development Plan, WS-117L.

AFBMD Operations Order No. 2-58.

TASK ORGANIZATION:

AFBMD Field Office, Palo Alto, California

6593d Test Squadron (Special)

RC-121 Vectoring Force (Assigned to 552d AEW and Control Wing, McClellan AFB)

Ship Recovery Force (Assigned to Pacific Missile Range, Pt Mugu, California)

1. SITUATION:

a. General: One of the objectives of the Thor boosted program, WS-117L, is the recovery of at least five biomedical capsules from orbit. This will be done by an aerial recovery system employing C-119J and RC-121 aircraft with a surface craft unit for back-up purposes. The 6593d Test Squadron (Special), a C-119 unit, organized to accomplish this objective, will conduct training and test from 1 September at Edwards AFB and deploy to Hawaii during the winter of 1958. Other attached units of the recovery force will assist during the training and operational phases. Subsequent to deployment an element of the squadron may remain at or rotate back to Edwards AFB or other appropriate station to assist in procedural and hardware development as the recovery program progresses.

b. Enemy Forces: Not anticipated to have a bearing on this Order.

c. Friendly Forces: Other than those units assigned to or under the operational control of AFBMD for the purpose of this recovery program, assistance will be arranged on a timely basis to support this plan. Tasks to be included are:

(1) Tactical Air Command will provide qualified personnel to man the 6593d Test Squadron (Special).

(2) Air Defense Command will provide RC-121 aircraft and crews for capsule tracking, acquisition and vectoring aerial recovery aircraft during test, training, and operational phases in accordance with the attached schedules.

[redacted]

(3) Air Material Command, through Middletown Air Material Area (MAAMA) will provide C-119J supply and equipment support for the unit at Edwards and Hickam AFB.

(4) Air Force Flight Test Center (ARDC) will provide logistic support for the C-119 unit from August through December 1958.

(5) Pacific Air Force will provide administrative and logistic support within Hawaii for the recovery force during the actual recovery phase, January 1959 through 1960.

(6) Pacific Missile Range will provide the overwater test area during the training and test phases, suitable ships for the water pickup test phase and the Ship Recovery Force.

(7) Lockheed Missile Systems Division, Palo Alto, California, contractor for WS-117L, will provide technical guidance and assistance during this program.

(8) The All American Engineering Company will provide technical representation pertaining to recovery equipment.

(9) General Electric Company will provide technical representation pertaining to capsule and allied equipment.

2. MISSION:

a. To provide recovery of capsules from orbit in support of the Thor boosted program of WS-117L by developing and employing an aerial recovery system with a recovery back-up by ships.

3. TASKS FOR SUBORDINATE UNITS:

a. The Chief, Palo Alto Field Office will assign tasks, designate objectives and give directions through commanders of the Task Organization for their parts in the conduct of the Thor boosted program.

b. The Commander, 6593d Test Squadron (Special) will develop training and recovery techniques and employ his unit for execution of aerial recovery in accordance with the program schedule.

c. The RC-121 Vectoring Force will develop vectoring techniques and procedures in conjunction with the 6593d Squadron and will assure operational readiness in accordance with the program schedule. One of the aircraft will

also act as a Command Post between the Recovery Force and the Hawaiian Tracking Station.

d. The Ship Recovery Force will prepare plans for deployment in the impact area, and recovery if necessary, during the launch phase upon order from the Chief, Palo Alto Field Office.

4. ADMINISTRATION AND LOGISTICS:

a. An ARDC General Order has been issued activating the 6593d Test Squadron (Special) effective 1 August 1958.

b. The unit will be assigned PCS to Hickam AFB with a delay enroute (TDY) to Edwards AFB until December of 1958. PCS at Hickam AFB will extend through February of 1960 after which the unit may be dissolved and personnel absorbed by PACAF for the remainder of their overseas tour.

c. The effort on WS-117L has been assigned highest national priority and carries a DX rating of .011 Brick-Bat, and precedence rating of I-1. The nickname of "Hot Hand" carrying a precedence and priority rating of I-1 has been assigned to the program of activating, training, equipping, and operation of the 6593d Squadron.

d. Edwards AFB and Hickam AFB will provide logistic support, including administrative support, for the unit while it is stationed at those bases. Administrative control will be retained by AFBMD. AFBMD will insure that adequate tenancy agreements with other Commands are provided. See also Annex B--Administration and Annex E--Logistics.

5. COMMAND AND SIGNAL:

a. All Task Organizations and Friendly Forces assisting in this Order are authorized direct communication with each other in pursuit of this operation.

b. The Air Force Ballistic Missile Division (ARDC) through the Field Office, Palo Alto, will exercise operational control of all attached units during the development, test and recovery phases, as required.

c. Communication matters are contained in Annex K.

B. A. SCHRIEVER
Major General, USAF
Commander

ANNEX A - Operations

Appendix 1 - Program Schedules

Appendix 2 - Training

ANNEX B - Administration

ANNEX C - Manpower and Organization

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ANNEX E - Logistics

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Appendix 2 - Supply

Appendix 3 - Transportation

TAB 1 - Memorandum of Agreement Edwards AFB/AFBMD

TAB 2 - 11-4 Agreement with Pacific Air Forces

ANNEX F - Legal

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ANNEX K - Communications

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AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

ANNEX A
to
OPERATIONS ORDER NO. 3-58

OPERATIONS

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ANNEX A
to
OPERATIONS ORDER 3-58

OPERATIONS

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

CONCEPT OF OPERATIONS

1. RECOVERY TEST PHASE:

a. A recovery test program has been established because of a need for the development and/or refinement of equipment and techniques necessary to locate and recover the descending capsule. The majority, if not all of this test program will take place while the C-119 unit is stationed at Edwards AFB before deployment to Hickam AFB, T.H. The test program consists of seven parts:

(1) C-119 Beacon Receiver Installation.

(a) To select an optimum receiver and antenna installation compatible with the capsule borne beacon.

(2) Chaff Target Characteristics Evaluation.

(a) To determine optimum chaff target characteristics as detected by the airborne APS-20 radar. A drop aircraft will be utilized in conjunction with an RC-121 for dropping chaff from above 40,000 feet.

(3) Air Target Characteristics Evaluation.

(a) To determine over ocean areas optimum air target characteristics of a dummy vehicle with silvered chute and chaff ejector. Results will be recorded by repeater scope cameras.

(4) Water Target Characteristics.

(a) To determine optimum water target characteristics by use of beacon and Rescue-lite in the event of water impact.

(5) Vectoring and Air Pickup Techniques.

(a) To evaluate the deployment and operational aspects in a full scale recovery effort using dummy vehicles dropped from B-52 or similar aircraft.

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WDSO-58-27

(6) Actual Vehicle Air Pickup

(a) To evaluate chute deployment air pickup, handling loads and problems relating to final securing of the capsule in the recovery aircraft. This will be accomplished over Edwards AFB range.

(7) Actual Vehicle Water Pickup

(a) To determine water impact loads and effect of parachute collapse on the vehicle and antenna. Water recovery will be accomplished by a surface craft from Pacific Missile Range.

2. OPERATIONAL RECOVERY PHASE:

a. Orbital Vehicle Re-entry. An attitude re-orientation and retro rocket firing command to effect re-entry will be given by one of the Alaskan Tracking and Acquisition Stations. The command will be given after the sixteenth orbit when the vehicle is on a north to south pass. This will permit recovery in the area of the Hawaiian Islands. A more precise area of 225 miles long and 50 miles wide can be obtained after approximately twelve hours of vehicle orbital life. At this time the order will be given as to when and where the recovery force will be on station. On station time will be preceded by a weather reconnaissance flight. Upon re-entry, the capsule will use drag to slow down so that it will be at about Mach #1 in free fall at 50,000 feet. Ablation material will be used to dissipate heat during this period. At the beginning of re-entry the capsule will weigh about 197 pounds. Burn off and ablation nose ejection will reduce this weight to about 60 pounds at time of recovery.

b. Capsule Acquisition. At 50,000 feet a parachute will open which will slow the speed of the capsule to 25 feet per second by the time it has reached 10,000 feet. Shortly after parachute opening, chaff will be ejected from the capsule, which, along with the silvered chute, will permit identification and tracking by radar. RC-121 aircraft on station in the 225 by 50 mile area, equipped with APS-20 search radars will transmit position information to one or more of five C-119 recovery aircraft and vector them into position. At approximately 30 miles range, a pulsed VHF beacon in the capsule will be picked up by both RC-121 and C-119 aircraft for final positioning. Further back-up for

acquisition will be provided by a Rescue-lite in the capsule. This will also aid in surface vessel pickup if aerial recovery is not effected.

c. Capsule Recovery. An estimated time of 18 minutes for the capsule to descend from 50,000 to 10,000 feet will provide time for one of the five C-119 aircraft each stationed in a 50 by 45 mile sector of the impact area to effect recovery from 10,000 feet. At this altitude the C-119 can make 5 to 6 recovery attempts at a speed of 110 knots. This is based on a descent rate of 25 feet per second or 1,500 feet per minute. Recovery is effected by snatching the parachute on one of several hooks attached to two 20 foot booms extending down and out from the C-119 tail doors. After snatch the capsule is pulled into the aircraft by use of a high speed winch. Four boom operators and a winch operator comprise a minimum pickup crew.

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APPENDIX 1
to
ANNEX A OPERATIONS
PROGRAM SCHEDULES

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PROGRAM SCHEDULE

SUPPORT PLAN FOR PHASE IIA

WS 117L PROGRAM

	FY 58	FY 59	FY 60	FY 61
	CY 58	CY 59	CY 60	CY 61
	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D	J F M A M J J A S O N D
1 Provisional Unit C-119 A/C				
2 Assignment Directive	X			
3 Activation at Edwards	X			
4 Unit Designation	X			
5 Personnel Assigned				
6 4 Crews - 4 August	X			
7 5 Crews - 1 September	X			
8 Aircraft Assigned	X			
9 Operational Plan and UMD	X			
10 Overseas Movement	X			
11				
12 RC-121 Aircraft and Drop Aircraft				
13 Identification	X			
14 Assignment Directive	X			
15				
16 Training				
17 C-119 Crews				
18 Initiation - AAE - EAFB	X			
19 Completion	X			
20 C-119/RC 121 Combined Training	X			
21				
22 LMSD Test Schedule				
23 Beacon Receiver Installation	X			
24 Chaff Target Characteristics	X			
25 Phase I Air Target	X			
26 Phase II Water Target	X			
27 Phase III Vectoring Techniques and	X			
28 Air Pick Up				
29 Phase IV Actual Vehicle Air Pickup	X			
30 Phase V Actual Vehicle Water Impact				
31 Recovery	X			
32				
33 Operational Phase				
34 Initiation				
35 Completion		X		
36			X	
37				
38				
39	[redacted]			
40				

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L-W FORM 2196A

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AIR FORCE BALLISTIC MISSILE DIVISION
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APPENDIX 2
to
ANNEX A OPERATIONS
TRAINING

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APPENDIX 2
to
ANNEX A, OPERATIONS

TRAINING

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. RECOVERY SYSTEM TRAINING:

a. Crew training will be conducted in conjunction with the Recovery Test Program. Aerial pickup training will also be accomplished separately by using a C-119 drop and another for recovery of the capsule.

b. Close liaison will be established with the 552d AEW Wing to insure adequate training and vectoring techniques are established.

c. If required, periodic full scale training will be conducted in Hawaii to insure proficiency between actual vehicle pickups. This will be determined during the latter portion of the Recovery Test Phase.

d. Other unit and individual training will be conducted as appropriate within the resources of the Squadron and when it does not present a detriment to the accomplishment of the mission.

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AIR FORCE BALLISTIC MISSILE DIVISION
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Inglewood, California

ANNEX B
to
OPERATIONS ORDER NO. 3-58

ADMINISTRATION

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ANNEX B
to
OPERATIONS ORDER NO. 3-58

ADMINISTRATION

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. The host activity will provide administrative services and paperwork management support as detailed in AFR 20-16. Administrative control will be retained by the Air Force Ballistic Missile Division (ARDC).

2. The following administrative services functions will be accomplished as indicated:

Support Function	Host Activity Will	Tenant Activity Will
Classified Document Control	Provide necessary document control services and security control to the unit.	Comply with Base Regulations and utilize Base procedures for document control.
Mail and Postal	Provide mail and postal services as required.	Coordinate requirements with the host activity.
Orders	Prepare and publish all orders as required.	Submit requests to host activity.
Publications, Reproduction and Forms Management	Provide printing and duplicating services; distribution of Departmental and local forms and publications.	Coordinate requirements with host activity. Requisition ARDC and AFBMD forms and publications from AFBMD.
Records Management	Supervise this function. Provide storage space for non-current records.	Manage files and records.

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AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, C lifornia

ANNEX C
to
OPERATIONS ORDER NO. 3-58

MANPOWER AND ORGANIZATION

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ANNEX C
to
OPERATIONS ORDER NO. 3-58

MANPOWER AND ORGANIZATION

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. GENERAL:

a. Staff assistance will be provided the 6593d Test Squadron (Special), as required, by the Chief, AFBMD field office, Palo Alto. All requirements listed below should be processed through the Chief, AFBMD field office, Palo Alto.

2. PURPOSE:

a. The primary purpose of this document is to provide guidance to the 6593d Test Squadron (Special) as to applicable procedures for programming manpower requirements and processing organizational actions.

3. MANPOWER REQUIREMENTS:

a. The provisions of AFBMD Installation Regulation 26-1 will be complied with by the 6593d Test Squadron (Special) in programming and submission of their manpower requirements.

4. UNIT MANNING DOCUMENT AND MANPOWER PROGRAM DOCUMENT PROCEDURES:

a. AFBMD will be responsible for the preparation, approval, and publishing of unit manning documents for the 6593d Test Squadron (Special). See Tab 2 for initial manpower requirements of the 6593d Test Squadron (Special).

b. AFBMD will publish, distribute, and maintain the manpower and organizational program documents for the 6593d Test Squadron (Special).

5. REPORTS:

a. The Chief, Manpower Division, AFBMD, will be responsible for all manpower reports pertaining to the 6593d Test Squadron (Special) required for higher headquarters.

6. ORGANIZATIONAL ACTIONS:

a. AFBMD will initiate and be responsible for all actions necessary, pertinent to the organization of the 6593d Test Squadron (Special). See Tab 1, ARDC General Order.

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AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

APPENDIX 1
to
ANNEX C MANPOWER AND ORGANIZATION
ARDC GENERAL ORDER

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HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
United States Air Force
Andrews Air Force Base
Washington 25, D.C.

GENERAL ORDERS)
NUMBER 38)

22 July 1958

SECTION

DESIGNATION, ORGANIZATION AND ASSIGNMENT OF USAF UNIT.....I

I. DESIGNATION, ORGANIZATION AND ASSIGNMENT OF USAF UNIT.

1. Effective 1 August 1958, the 6593d Test Squadron (Special) is designated and organized at Hickam Air Force Base, Territory of Hawaii with assignment to Air Research and Development Command. The 6593d Test Squadron (Special) is attached to Detachment Number 2, Headquarters Air Research and Development Command (Air Force Ballistic Missile Division), for administrative and operational control, and to the 6486th Air Base Wing for administrative and logistic support.

2. Personnel will be furnished by the Commander, Detachment Number 2, Headquarters, Air Research and Development Command (Air Force Ballistic Missile Division) as prescribed in Department of Air Force Message (S) AFOOP-OC-R 53042, 9 July 1958.

3. Equipment is authorized, effective 1 August 1958, under Unit Authorization List Number 6593 6885A.

4. Authority: Department of the Air Force Message (S) AFOOP-CR-R 53042, 9 July 1958, as amended, and Air Force Regulation 20-27, 15 September 1955.

FOR THE COMMANDER:

J. W. SESSUMS, JR.
Major General, USAF
Vice Commander

W. J. ATKINS
Colonel, USAF
Director Administrative Services

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AFBMD (HEDARDC)
APPENDIX 1 to ANNEX C
OPERATIONS ORDER NO. 3-58

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AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

ANNEX D
to
OPERATIONS ORDER NO. 3-58

PERSONNEL

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ANNEX D
to
OPERATIONS ORDER NO. 3-58

PERSONNEL

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. MILITARY PERSONNEL:

a. The Commander, 6593d Test Squadron (Special), will be directly responsible to the chief, AFBMD, Field Office, Palo Alto, for the management of personnel assigned to the 6593d Test Squadron (Special). Specific responsibilities are outlined in the following paragraphs.

2. PERSONNEL PROCUREMENT:

a. The Commander, AFBMD, will be responsible for the manning of the 6593d Test Squadron (Special). This responsibility will include the preparation and the submission of all officer and airmen personnel requisitions for initial and attrition requirements.

3. REASSIGNMENTS:

a. The Commander, 6593d Test Squadron (Special), will process reassignment requests through the Chief, AFBMD, field office, Palo Alto.

b. AFBMD will accomplish, screen, and process requests for reassignment to or from the 6593d Test Squadron (Special).

4. MILITARY PERSONNEL RECORDS SYSTEM:

a. The maintenance of the military personnel records for personnel of the 6593d Test Squadron (Special) will be the responsibility of the:

(1) Commander, 6510th Air Base Group, Edwards Air Force Base, while on TDY thereat from approximately August 1958 to December 1958 and

(2) Commander, 6486th Air Base Wing, Hickam Air Force Base, when unit arrives PCS thereat approximately December 1958.

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5. MEDICAL and PAY RECORDS:

a. Will accompany the individual to his duty station for use in securing medical support and pay from the military installation to which the element is attached for administration and logistic support.

6. PROMOTIONS:

a. Officer promotion program.

(1) AFBMD will prepare and submit necessary reports as required to implement temporary promotion programs.

(2) Will exercise temporary promotion authority under AFR 36-13, 36-24, 36-30, 36-45, 36-56 and 36-38.

b. Airmen promotion program.

(1) AFBMD will exercise staff cognizance over the airmen temporary promotion program.

(2) The Commander, 6593d Test Squadron (Special), will provide the promotion nominees, based on current eligibility criteria, to the Chief, AFBMD, field office, Palo Alto.

(3) The AFBMD Airmen Promotion Board will make first selection of airmen to be promoted.

7. SEPARATIONS:

a. The Commander, 6593d Test Squadron (Special), will process requests for separation actions through the Chief, AFBMD, field office, Palo Alto.

8. PERSONNEL SERVICES:

a. Coordination with military organizations adjacent to the duty stations will be accomplished to provide adequate personnel services for the 6593d Test Squadron (Special).

9. SERVICES:

a. Administration of civilian personnel assigned to the 6593d Test Squadron (Special) will be serviced by the nearest Air Force Central Civilian Personnel Office.

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10. PERSONNEL REPORTING.

a. Morning reports for the 6593d Test Squadron (Special) will be submitted by the base unit to which attached for administrative support.

b. The Commander, 6593d Test Squadron (Special), will submit electrically transmitted reports as to Aircraft Crew Status to AFBMD and to the Chief, Palo Alto Field Office, whenever a change occurs in crew readiness status, such as might be occasioned by illness, leave, etc.

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AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

ANNEX E
to
OPERATIONS ORDER NO. 3-58

LOGISTICS

ANNEX E
to
OPERATIONS ORDER NO. 3-58

LOGISTICS

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

GENERAL:

1. The 6593d Test Squadron (Special) will be equipped with only those items of maintenance equipment necessary to augment present assets at Edwards Air Force Base and/or Hickam Air Force Base. The maintenance equipment on the UAL was selected by Edwards and Hickam maintenance personnel by comparing base assets with requirements listed in applicable ECL for C-119 aircraft. This concept eliminated the expense of duplicating assets at Edwards Air Force Base and Hickam Air Force Base, realizing the 6593d Test Squadron could not operate independtly. This concept will be incorporated by AFBMD in the logistical agreements with Edwards Air Force Base and Hickam Air Force Base.

2. All units of the task organization will use the WS-117L priority in obtaining logistical support that is directly related to this program.

3. Logistic problems affecting the mission of any task organization will be referred to AFBMD, ATTN: WDSM, through the Palo Alto Field Office.

AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
Post Office Box 262
Inglewood, California

APPENDIX 1
to
ANNEX E LOGISTICS
MAINTENANCE

ANNEX E
to
OPERATIONS ORDER 3-58

LOGISTICS

APPENDIX I - MAINTENANCE

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. Edwards Air Force Base, California

a. 6593d Test Squadron (Special)

(1) The 6593d Test Squadron (Special) will perform organizational maintenance of assigned aircraft while TDY at Edwards Air Force Base. Edwards AFB will provide hangar, parking, and office space requited for organizational maintenance. Edwards AFB will provide field maintenance support and assist the 6593d Test Squadron (Special) with organizational maintenance as required. Edwards AFB will be responsible for maintenance of parachutes and survival equipment, to include repacking of parachutes. Special recovery gear installed in the aircraft will be maintained by Contractor personnel assisted by the 6593d Test Squadron (Special). All other maintenance will be the responsibility of Edwards AFB. See TAB 2, Memorandum of Agreement, AFBMD/Edwards AFB.

b. RC-121 Vectoring Force

(1) No maintenance support required.

2. Hickam Air Force Base, Honolulu, T.H.

a. 6593d Test Squadron (Special)

(1) Organizational and field maintenance of the 6593d Test Squadron (Special) aircraft and related equipment will be accomplished by Hickam Air Force Base. Pre-flight and post-flight maintenance will be accomplished by the 6593d Test Squadron (Special). Unscheduled maintenance will be accomplished by the 6593d Test Squadron (Special) if within their capabilities, otherwise, unscheduled maintenance will

be performed by Hickam AFB. Special recovery equipment installed in the aircraft will be maintained by contractor personnel assisted by the 6593d Test Squadron (Special). All other maintenance will be the responsibility of Hickam AFB. See TAB 3, AFR 11-4, Agreement with Hickam AFB.

b. RC-121 Vectoring Force

(1) No maintenance support is anticipated other than that afforded transient aircraft.

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APPENDIX 2
to
ANNEX E LOGISTICS

SUPPLY

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APPENDIX 2
to
ANNEX E, LOGISTICS

SUPPLY

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. Edwards Air Force Base, California

a. 6593d Test Squadron (Special)

(1) Edwards Air Force base will provide aircraft spares support excluding special recovery equipment which will be supplied by contractor personnel through arrangments with Headquarters, Middletown Air Materiel Area. Initial four (4) months stockage of aircraft spares will be shipped automatically by means of an Air Force Supply Directive (AFSD). The AFSD will be based on Tables II, III and XVI for C-119 aircraft. In addition, two engine power packs, one left and one right, will be shipped automatically to Edwards AFB. Subsequent replacement spares and/or engines will be requisitioned by Edwards AFB Supply Officer through normal supply channels.

(2) The 6593d Test Squadron (Special) Unit Authorization List (UAL) will be prepared by the Air Force Ballistic Missile Division. AFBMD will cause automatic shipment of UAL items to Edwards AFB for subsequent issue to the 6593d Test Squadron (Special). UAL items shipped to Edwards AFB will consist of those items necessary to augment present base assets. Other supply support not referenced will be the responsibility of Edwards AFB. See TAB 2, Memorandum of Understanding, AFBMD/Edwards AFB.

b. RC-121 Vectoring Force

(1) No supply support required.

2. Hickam Air Force Base, Honolulu, T.H.

a. 6593d Test Squadron (Special)

(1) Hickam AFB will provide aircraft spares support excluding special recovery equipment which will be supplied by contractor

personnel through arrangment with Headquarters, Middletown Air Materiel Area. Initial four (4) months stockage of aircraft spares will be shipped automatically by AFSD to Hickam AFB to arrive November and December 1958. The AFSD will be based on Tables II, III and XVI and experience gained at Edwards AFB on C-119 aircraft. In addition, four engine power packs, two left and two right, will be shipped automatically to Hickam AFB. Subsequent replacement spares and/or engines will be requisitioned by Hickam Base Supply through normal supply channels.

(2) The 6593d Test Squadron (Special) UAL will be prepared by the Air Force Ballistic Missile Division. UAL items shipped to Edwards AFB will accompany the unit to Hickam AFB. The UAL items not required at Edwards AFB will be shipped automatically to Hickam Base Supply and will be available for issue to the 6593d Test Squadron (Special) on arrival. The UAL will authorize only those items necessary to augment present Hickam assets. Items, such as office furniture, office equipment, bedding, etc., will be supplied from present Hickam assets. See TAB 3, AFR 11-4 Agreement with Hickam Air Force Base.

b. RC-121 Vectoring Force.

(1) No supply support is anticipated other than that afforded transient aircraft.

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APPENDIX 3
to
ANNEX E LOGISTICS

TRANSPORTATION

APPENDIX 3
to
ANNEX E, LOGISTICS

TRANSPORTATION

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. During TDY at Edwards AFB, the 6593d will be furnished local transportation support by AFFTC.

2. Upon arrival at Hickam AFB, transportation support will be assumed by PACAF.

3. Necessary funding for and any special assistance required during the move of the 6593d to Hickam AFB will be accomplished by AFBMD.

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TAB 1
to
APPENDIX 3 to ANNEX E

MEMORANDUM OF AGREEMENT EDWARDS AFB/AFBMD

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TAB 2
to
APPENDIX 3 to ANNEX E

11-4 AGREEMENT WITH PACIFIC AIR FORCES

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ANNEX F
to
OPERATIONS ORDER NO. 3-58

LEGAL

ANNEX F
to
OPERATIONS ORDER NO. 3-58

LEGAL

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. COURT-MARTIAL JURISDICTION:

a. Court-Martial Jurisdiction for military personnel assigned to the 6593d Test Squadron (Special), while deployed at Edwards AFB, will be as follows:

(1) The Commander, Air Research and Development Command, will exercise Court-Martial Jurisdiction and actions under Article 15, UCMJ, over all commissioned and warrant officers of the 6593d Test Squadron (Special).

(2) The Commander, Air Force Flight Test Center, will exercise General and Special Courts-Martial Jurisdiction over all airmen of the 6593d Test Squadron (Special).

(3) The Commander, 6593d Test Squadron (Special) will exercise Summary and Court-Martial Jurisdiction and actions under Article 15, UCMJ, over all airmen of the 6593d Test Squadron (Special).

b. Court-Martial Jurisdiction for military personnel assigned to the 6593d Test Squadron (Special) when deployed to Hawaii will be as follows:

(1) The Commander, Air Research and Development Command, will exercise Court-Martial Jurisdiction and action under Article 15, UCMJ, over all commissioned and warrant officers of the 6593d Test Squadron (Special).

(2) A request should be made by the Commander, 6593d Test Squadron (Special) pursuant to the provisions of paragraph five (5), Air Force Regulation 11-4, to the appropriate General Court-Martial authority in Hawaii (Pacific Air Forces), requesting that the said

squadron as a tenant unit desires to be attached for legal and administrative proceedings to the military organization thereon.

(3) The Commander, 6593d Test Squadron (Special), will exercise Summary and Court-Martial Jurisdiction and actions under Article 15, UCMJ, over all airmen of the 6593d Test Squadron (Special).

2. ADMINISTRATIVE AND BOARD PROCEEDINGS:

a. Administrative actions required by AFR's 35-62, 36-2, 39-16, 39-17 and other directives shall follow pertinent Air Force Regulations and governed by the appropriate echelon of Court-Martial authority enumerated in Section 1 above.

3. CLAIMS, LEGAL ASSISTANCE AND MILITARY AFFAIRS:

a. The military personnel assigned to the 6593d Test Squadron (Special) will be permitted to utilize the legal services of the local Staff Judge Advocate for such matters as Claims, Legal Assistance, and questions involving military affairs.

AIR FORCE BALLISTIC MISSILE DIVISION
HEADQUARTERS
AIR RESEARCH AND DEVELOPMENT COMMAND
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Inglewood, California

ANNEX G
to
OPERATIONS ORDER NO. 3-58
BUDGET AND FISCAL

ANNEX G
to
OPERATIONS ORDER NO. 3-58

BUDGET AND FISCAL

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. BUDGET:

a. AFBMD will act as Advanced Research Project Agency agent for matters concerning ARPA funding and relating to Budget Development and Execution in support of this Operations Order.

b. To the extent applicable, the attached general guide for costing (Appendix 1 to this Annex) will be used by appropriate agencies in developing fund requirements to support this Operations Order. Items not covered will be forwarded to AFBMD for resolution or submission to USAF/ARPA for resolution, if required.

c. Host-tenant budgeting and funding relationships and implementation of the attached general guide for costing will be accomplished under the provisions of Chapter 2, Part II, AFM 172-1 as revised 25 July 1958. Participating Air Force agencies/activities (including hosts) will budget through normal channels in support of this Order for items furnished by the Air Force or reimburseable from ARPA funds as outlined in Appendix 1. At the call of AFBMD, participating agencies/activities will submit fund requirements with justification to AFBMD for those items requiring reimbursement to the Air Force and/or those items requiring direct citation of ARPA funds.

d. Funding (reimbursement or direct) will be accomplished as mutually agreed upon by AFBMD and other agencies/activities participating in or supporting this Order.

2. ACCOUNTING:

a. Direct citation of ARPA funds will be utilized wherever possible on all requests for procurement which are not included in the Air Force program.

b. The Accounting and Finance Division, (WDCA) will be notified when any items, other than those for common support, included in the Air Force program

are provided in support of "Hot Hand". The Accounting and Finance Officer, (WDCA) will take appropriate action if necessary to secure reimbursement from ARPA funds. These data are necessary whether or not reimbursement is required in order to maintain accurate cost records on the project.

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APPENDIX 1
to
ANNEX G
to
OPERATIONS ORDER NO. 3-58

COST GUIDE

APPENDIX 1
to
ANNEX G
to
OPERATIONS ORDER No. 3-58

COST GUIDE

AIR FORCE BALLISTIC MISSILE DIVISION (HEDARDC)
Inglewood, California
15 September 1958

General Guide for Costing ARPA Projects:

Work Projects	Direct Citation of ARPA Funds	Reimbursable from ARPA Funds	Financed by AF Funds
Boosters, Propulsion Systems, Airframes, GSE and Associated Hardware included in Air Force Programs		X	
Booster, Propulsion Systems Airframes, GSE and Associated Hardware not included in Air Force Program	X		
Standard Centrally Procured AF Equipment		X	
Non-Standard Locally Purchased Equipment	X		
Contracts for Engineering Svs, Field Support Services, Admin Support, Systems Engineering, and Technical Direction Peculiar to ARPA Projects	X		
Portions of Air Force Contracts for Engineering Svs, Field Support Svs, Administrative Support, Systems Engineering and Technical Direction which can be identified as added out-of-pocket for ARPA Projects		X	
Contracts for Military Construction of Technical Facilities Required at AF Bases Peculiar to ARPA Projects	X		
Military Construction of General Support and General Use Technical Facilities at AF Bases			X
Modification of Equipment to Conform to ARPA Requirements	X		
Scheduled MATS Flights		X	
Use of AF Contractual Airlift			X

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Work Projects	Direct Citation of ARPA Funds	Reimbursable from ARPA Funds	Financed by AF Funds
Military Pay			X
Travel of AF Personnel 1/		X	
Civilian Personnel			X
Travel 1/		X	
Range Time			X
Range Services			X
Transportation Intra AF Bases and Down Range			X
Communications:			
Local			X
Long Distance 1/		X	
Supplies and Equipment			
Common (supplied to all users without charge)			X
Peculiar to ARPA Needs		X	
Use of AF Facilities and Equipment			X
Local Purchasing Svs			X
Security Services			X
Propellants	X		
Fire Protection			X
Recreation and Morale Services and Facilities			X

1/ Charges will be based on rates and criteria included in DOD Directive 7000.1 and DOD Instruction 7240.1

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AIR FORCE BALLISTIC MISSILE DIVISION
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ANNEX H
to
OPERATIONS ORDER NO. 3-58

INSPECTION AND SECURITY

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ANNEX H
to
OPERATIONS ORDER NO. 3-58

INSPECTION AND SECURITY

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. INSPECTION:

a. Inspector General functions pertaining to inspections, special subject regulations and personnel complaints will be provided in accordance with the tenancy agreement between the host base and the 6593d Test Squadron (Special). However, this does not preclude the Commander, 6593d Test Squadron (Special) from requesting assistance from the Commander, Air Force Ballistic Missile Division on Inspector General type matters.

2. SECURITY:

a. The Commander of the 6593d Test Squadron(Special) will carry out his security responsibilities in the manner consistent with the priority and classification of this project. In addition, the following security provisions will govern Air Police support, personnel clearances and Air Force Ballistic Missile Division security policies.

(1) Requirements for Air Police support (guards) will be provided by the host base in accordance with the tenancy agreement (TAB #2 and #3 - ANNEX E).

(2) All personnel clearances will be processed by the Air Force Ballistic Missile Divison. Base and area type clearances will be processed by the host Provost Marshal section.

(3) Air Force Ballistic Missile Division security policies will be implemented where applicable.

3. CLASSIFICATION:

a. Classification guidance for this program of WS-117L will be furnished by the Commander, Air Force Ballistic Missile Division,

in the form of the Master Security Classification Guide, WS-117L, which will be amended as required to more fully cover operational aspects of the program.

b. The Commanders of Air Force Ballistic Missile Division Field Office, Palo Alto, California, and 6593d Test Squadron (Special) will recommend changes to classification guide when appropriate and keep the Commander, Air Force Ballistic Missile Division, advised of classifications which impose undue burdens or prevent the scheduled accomplishment of their missions.

4. VISITOR CONTROL:

a. The Commander, Air Force Ballistic Missile Division, will be the approving authority for all visits in connection with the WS-117L Program.

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ANNEX I
to
OPERATIONS ORDER NO. 3-58

INFORMATION SERVICES

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ANNEX I
to
OPERATIONS ORDER NO. 3-58

INFORMATION SERVICES

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. COMMAND RELATIONSHIP:

a. Commander, Air Force Ballistic Missile Division will be responsible for Information Services throughout the Thor boosted flight program.

2. RESPONSIBILITY:

a. All public release information concerning the activities of the Thor boosted program will be released by the Director, Information Services Office, AFBMD

3. PROCEDURES:

a. Task organization units will be responsible for advising the AFBMD Field Office, Palo Alto, California, on matters which might be expected to arouse public interest and/or press inquiries resulting from their assigned mission.

b. The Palo Alto Field Office will refer all such matters and inquiries regarding public release information to the Director, Information Services, Air Force Ballistic Missile Division.

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ANNEX J
to
OPERATIONS ORDER NO. 3-58

MEDICAL

ANNEX J
to
OPERATIONS ORDER NO. 3-58

MEDICAL

Air Force Ballistic Missile Division (HEDARDC)
Inglewood, California

1. MEDICAL SERVICE:

a. While the unit is stationed at Edwards Air Force Base, Medical service will be furnished by the Commander, USAF Hospital, Edwards AFB, to the same extent as that offered to assigned personnel.

b. When the unit moves to its permanent location at Hickam AFB, the Commander, USAF Hospital, Hickam AFB, will furnish the same medical service to personnel of this unit as to other assigned units.

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ANNEX K
to
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COMMUNICATION

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